

FREQUENCY AND TIMING ERROR ESTIMATION AND
CORRESPONDING CHANNEL CHARACTERIZATION IN A
COMMUNICATION SYSTEM

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ABSTRACT OF THE DISCLOSURE

A method for determining a frequency error over at least one frequency search space for a received signal, the method including the steps of: calculating a first noise estimation for a first frequency offset in a frequency search space; calculating at least a second noise estimation for a second frequency offset in the frequency search space; and determining a minimum noise estimation from the calculated noise estimations, wherein the frequency error is the frequency offset corresponding to the minimum noise estimation.

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